QC ABSTRACT

NAME OF WORK: Repairs to borewell chain link fencing, seating arrangement childred play equipment and other works to Ganesha layot park M.S Palya in Ward No.11

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
6	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
7	PCC(M15)	Compressive Strength(7days and 28days)	2 set /6-15 cum	5.67	4	4
8	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
9	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
10	Chain Link Fencing	Average Thickness	One Test		1	1
		Dia of line wire	One Test		1	1
		Mesh size	One Test		1	1
		Nominal dia of mesh wire	One Test		1	1
		Bend Test	One Test		1	1
11	M S Block Pipe	Yeild Stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
12	Cement Concrete Designer Tiles	Water Absorption	One Test		1	1
		Wet Transverse Strength	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-01-19-26** **Date: 23-07-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs to borewell chain link fencing, seating arrangement childred play equipment and other works to Ganesha layot park M.S Palya in Ward No.11
Agency	:	H.Gangadhar, #24, 3rd main road, Akshavanin layout, Vidyaranyapura, Bangalore-97
Customer's Reference	:	BBMP/EE/BTP/WO/246/201617
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-07-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11)-1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4 4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	21-07-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.42	–
2	Finess by Air permeablity method (m^2/kg,Min)	288.6	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	170 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 18-08-21

Lab ID	:	**CP-2022-01-19-26**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore
Project Name	:	Repairs to borewell chain link fencing, seating arrangement childred play equipment and other works to Ganesha layot park M.S Palya in Ward No.11
Agency	:	H.Gangadhar, #24, 3rd main road, Akshavanin layout, Vidyaranyapura, Bangalore-97
Customer's Reference	:	BBMP/EE/BTP/WO/246/201617
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-07-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	21-07-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	57.5N/mm^2	Not less than 53 N/mm^2

• The results obtained are satisfactory as per standard requirements

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-01-19-26** **Date: 23-07-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs to borewell chain link fencing, seating arrangement childred play equipment and other works to Ganesha layot park M.S Palya in Ward No.11
Agency	:	H.Gangadhar, #24, 3rd main road, Akshavanin layout, Vidyaranyapura, Bangalore-97
Customer's Reference	:	BBMP/EE/BTP/WO/246/201617
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	20-07-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	20-07-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	188	188	1.3	98.7	90-100
3	20 mm	5261	5449	36.3	63.7	30-70
4	10 mm	6442	11891	79.3	20.7	10-35
5	4.75 mm	2499	14390	95.9	4.1	0-5
6	Pan	610	15000	100.0	0	---

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Name of Work: Repairs to borewell ch

Format No: CP/TF/01

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-01-19-26** **Date: 23-07-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.63	_
4	Bulk Density(Loose) (Kg/l)	1.49	_
5	Bulk Density(Compacted) (Kg/l)	1.52	_
6	Water Absorption(%)	0.28	_

* The results obtained are satisfactory as per standard requirements.

Note:

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-01-19-26** **Date: 22-07-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs to borewell chain link fencing, seating arrangement childred play equipment and other works to Ganesha layot park M.S Palya in Ward No.11
Agency	:	H.Gangadhar, #24, 3rd main road, Akshavanin layout, Vidyaranyapura, Bangalore-97
Customer Reference	:	BBMP/EE/BTP/WO/246/201617
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-07-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	20-07-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	288	288	5.8	94.2	90-100
3	10 mm	2898	3186	63.7	36.3	25-55
4	4.75 mm	1589	4775	95.5	4.5	0-10
5	Pan	225	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-01-19-26** **Date: 22-07-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	13.8	
3	Specific Gravity	2.62	_
4	Bulk Density(Loose) (Kg/l)	1.54	_
5	Bulk Density(Compacted) (Kg/l)	1.57	_
6	Water Absorption(%)	0.25	_
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2022-01-19-26** **Date: 22-07-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs to borewell chain link fencing, seating arrangement childred play equipment and other works to Ganesha layot park M.S Palya in Ward No.11
Agency	:	H.Gangadhar, #24, 3rd main road, Akshavanin layout, Vidyaranyapura, Bangalore-97
Customer's Reference	:	BBMP/EE/BTP/WO/246/201617
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-07-21
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	20-07-21
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	14	14	1.4	98.6	90-100	90-100	90-100	95-100
3	2.36 mm	78	92	9.2	90.8	60-95	75-100	85-100	95-100
4	1.18 mm	288	380	38.0	62.0	30-70	55-90	75-100	90-100
5	600 micron	219	599	59.9	40.1	15-34	35-59	60-79	80-100
6	300 micron	244	843	84.3	15.7	5-20	8-30	12-40	15-50
7	150 micron	98	941	94.1	5.9	0-10	0-10	0-10	0-15
8	Pan	59	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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No.: TC-5548

TEST REPORT OF FINE AGGREGATE

Date: 22-07-21

Lab ID : **CP-2022-01-19-26**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.26	–
2	Specific Gravity	2.52	–
3	Material finer than 75 micron(%)	6.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

• The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID : **CP-2022-01-19-26**

Date: 24-07-21

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repairs to borewell chain link fencing, seating arrangement childred play equipment and other works to Ganesha layot park M.S Palya in Ward No.11

Agency : H.Gangadhar, #24, 3rd main road, Akshavanin layout, Vidyaranyapura, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/246/201617

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-07-21

Sample Type /Size : CC Kerb Stone/ 450*150*500mm

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 20/07/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	150.51	2.864	7854	142.1	18.1	18.1	22.6
2	B	100.03	150.49	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	150.50	2.815	7854	145.1	18.5	18.5	23.1

* The results obtained are satisfactory as per standard requirements.

Note:

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AEE (WRMD)

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Name of Work: Repair to borewell ch...

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-01-19-26** **Date: 09/08/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repairs to borewell chain link fencing, seating arrangement childred play equipment and other works to Ganesha layot park M.S Palya in Ward No.11

Agency : H.Gangadhar, #24, 3rd main road, Akshavanin layout, Vidyaranyapura, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/246/201617

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-08-21

Customer ID : M15 Cube

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/08/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M15 Cube	M15	02/08/2021	09/08/2021	150.22 X 150.48 X 150.63	22605	8.255	289.3	12.8	12.1
2	M15 Cube	M15	02/08/2021	09/08/2021	150.24 X 150.37 X 151.25	22591	8.179	268.8	11.9	
3	M15 Cube	M15	02/08/2021	09/08/2021	150.66 X 148.96 X 150.46	22442	8.166	258.1	11.5	

* The results obtained are satisfactory as per standard requirements.

Note:

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Authorized Signatory
Quality Manager

Name of Work: Repairs to

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-01-19-26** **Date: 30/08/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repairs to borewell chain link fencing, seating arrangement childred play equipment and other works to Ganesha layot park M.S Palya in Ward No.11

Agency : H.Gangadhar, #24, 3rd main road, Akshavanin layout, Vidyaranyapura, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/246/201617

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-08-21

Customer ID : M15 Cube

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/08/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M15 Cube	M15	02/08/2021	30/08/2021	151.39 X 151.22 X 150.63	22893	8.632	414.4	18.1	17.7
2	M15 Cube	M15	02/08/2021	30/08/2021	150.47 X 150.26 X 150.77	22610	8.155	388.9	17.2	
3	M15 Cube	M15	02/08/2021	30/08/2021	150.68 X 150.22 X 149.63	22635	8.232	402.9	17.8	

• The results obtained are satisfactory as per standard requirements.

Note:

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****End of Report****

Name of Work: Repair to bore

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : **CP-2022-01-19-26**

Date: 09/08/2021

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repairs to borewell chain link fencing, seating arrangement childred play equipment and other works to Ganesha layot park M.S Palya in Ward No.11

Agency : H.Gangadhar, #24, 3rd main road, Akshavanin layout, Vidyaranyapura, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/246/201617

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-08-21

Customer ID : M15 Cube

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/08/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M15 Cube	M15	02/08/2021	09/08/2021	150.36 X 149.66 X 151.24	22503	8.166	252.0	11.2	11.9
2	M15 Cube	M15	02/08/2021	09/08/2021	151.35 X 150.47 X 150.28	22774	8.960	275.6	12.1	
3	M15 Cube	M15	02/08/2021	09/08/2021	150.44 X 151.63 X 150.47	22811	8.156	285.1	12.5	

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Quality Manager

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 30/08/2021

Lab ID	:	**CP-2022-01-19-26**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs to borewell chain link fencing, seating arrangement childred play equipment and other works to Ganesha layot park M.S Palya in Ward No.11
Agency	:	H.Gangadhar, #24, 3rd main road, Akshavanin layout, Vidyaranyapura, Bangalore-97
Customer's Reference	:	BBMP/EE/BTP/WO/246/201617
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-08-21
Customer ID	:	M15 Cube
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/08/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M15 Cube	M15	02/08/2021	30/08/2021	151.23 X 149.63 X 151.22	22629	8.155	398.3	17.6	17.6
2	M15 Cube	M15	02/08/2021	30/08/2021	150.35 X 150.47 X 150.33	22623	8.163	389.1	17.2	
3	M15 Cube	M15	02/08/2021	30/08/2021	150.47 X 150.63 X 149.32	22665	8.155	405.7	17.9	

- The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/2017

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **CP-2022-01-19-26** **Date: 29-07-21**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repairs to borewell chain link fencing, seating arrangement childred play equipment and other works to Ganesha layot park M.S Palya in Ward No.11

Agency : H.Gangadhar, #24, 3rd main road, Akshavanin layout, Vidyaranyapura, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/246/201617

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-07-21

Sample Type : Fine Aggregate, M.Sand for Mortar

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 26-07-21

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	42	42	4.2	95.8	90-100
3	1.18 mm	188	230	23.0	77.0	70-100
4	600 micron	258	488	48.8	51.2	40-100
5	300 micron	218	706	70.6	29.4	5-70
6	150 micron	201	907	90.7	9.3	0-15
7	Pan	93	1000	100.0	0.0	0

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **CP-2022-01-19-26** **Date: 29-07-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.98	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	10.2	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.92	–
5	Loose Bulk Density (Kg/litre)	1.78	–

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Format No: CP/TF/2017

TEST REPORT FOR PLASTER SAND

Lab ID : CP-2022-01-19-26 **Date: 30-07-21**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repairs to borewell chain link fencing, seating arrangement childred play equipment and other works to Ganesha layot park M.S Palya in Ward No.11

Agency : H.Gangadhar, #24, 3rd main road, Akshavanin layout, Vidyaranyapura, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/246/201617

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-07-21

Sample Type : Plaster Sand

Reference to BIS codes : IS: 383 : 2016 (Specification for Coarse and fine Aggregates)
IS1542:1992 (Sand for Plaster - Specification)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 26-07-21

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 1542:1992
1	10 mm	0	0	0	100	100
2	4.75 mm	8	8	0.8	99.2	95-100
3	2.36 mm	18	26	2.6	97.4	95-100
4	1.18 mm	49	75	7.5	92.5	90-100
5	600 micron	109	184	18.4	81.6	80-100
6	300 micron	388	572	57.2	42.8	20-65
7	150 micron	372	944	94.4	5.6	0-15
8	Pan	56	1000	100	0	---

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-01-19-26** **Date: 30-07-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.05	–
2	Specific Gravity	2.52	–
3	Material finer than 75 micron(%)	7.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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CEMENT CONCRETE FLOORING TILES

Lab ID	:	**CP-2022-01-19-26** **Date: 31-07-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs to borewell chain link fencing, seating arrangement childred play equipment and other works to Ganesha layot park M.S Palya in Ward No.11
Agency	:	H.Gangadhar, #24, 3rd main road, Akshavanin layout, Vidyaranyapura, Bangalore-97
Customer Reference	:	BBMP/EE/BTP/WO/246/201617
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-07-21
Sample Type	:	Pre-Polished Designer Cement Concrete Tiles
Reference to BIS codes	:	IS 1237:2012
Date of test	:	26-07-21

1. Water Absorption

Sl.No.	Measured Dimension (mm)			Water Absorption	Average	Requirement as per IS:1237-2012
	L	B	T	(%)	(%)	
1	402	398	25.01	2.530	2.40	The average percentage of water absorption shall not exceed 10.
2	401	401	25.05	2.480		
3	402	402	25.03	2.280		
4	401	401	25.04	2.180		
5	399	400	25.06	2.850		
6	401	401	25.03	2.077		

2.Wet Transverse Strength

Sl.No.	Measured Dimension (mm)			Wet Transverse Strength	Average	Requirement as per IS:1237-2012
	L	B	T	(N/mm^2)	(N/mm^2)	
1	402	399	25.02	7.84	7.8	The average wet transverse strength shall not be less than $3N/mm^2$.
2	401	402	25.04	8.12		
3	402	398	25.06	7.85		
4	403	402	25.01	7.62		
5	401	401	25.05	7.15		
6	402	402	25.03	8.12		

* The results obtained are satisfactory as per standard requirements.

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Name of Work: Repair to borewell, Chain Link Fencing

TEST RESULTES FOR MS BLOCK PIPE

Lab ID	:	**CP-2022-01-19-26** **Date: 12-11-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	Repairs to borewell chain link fencing, seating arrangement childred play equipment and other works to Ganesha layot park M.S Palya in Ward
Project Name	:	H.Gangadhar, #24, 3rd main road, Akshavanin layout, Vidyaranyapura, Bangalore-97
Customer's Reference	:	BBMP/EE/BTP/WO/246/201617
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-11-18
Type of Sample	:	M.S Block Pipe
Reference to BIS codes	:	IS:1608-2005(RA 2011), IS 1599-2012.
Date of test	:	10-11-18

TESTS RESULTS FOR MS BLOCK PIPE 38MM DIA, 14 GAUGE

Sl. No	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Yeild Stress (N/mm2)	272	250N/mm^2	Satisfactory
2	Tensile Strength (N/mm2)	485	410N/mm^2	Satisfactory
3	Elongation Percentage (%)	23.5	Min 23%	Satisfactory

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TEST RESULTS FOR CHAIN LINK FENCING

Lab ID	:	**CP-2022-01-19-26** **Date: 09-11-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs to borewell chain link fencing, seating arrangement childred play equipment and other works to Ganesha layot park M.S Palya in Ward No.11
Agency	:	H.Gangadhar, #24, 3rd main road, Akshavanin layout, Vidyaranyapura, Bangalore-97
Customer's Reference	:	BBMP/EE/BTP/WO/246/201617
Sourse of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-11-18
Type of Sample	:	Chain Link Fencing
Reference to BIS codes	:	IS 2062:2011
Date of test	:	07-11-18

TESTS RESULT FOR WIRE MESH		
SL.NO	**Description**	**Result**
1	**Average Thickness in mm**	4.03
2	**Dia of linewire in mm**	3.13
3	**Mesh size in mm**	50.02
4	**Nominaldia of meshwire in mm**	2.51
5	**Bend Test**	Satisfactory

• The results obtained are satisfactory as per standard requirements

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Date: 24-07-21

Lab ID	:	**CP-2022-01-19-26**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore
Project Name	:	Repairs to borewell chain link fencing, seating arrangement childred play equipment and other works to Ganesha layot park M S Palya in Ward No 11
Agency	:	H Gangadhar, #24, 3rd main road, Akshavanin layout, Vidyaranyapura, Bangalore-97
Customer's Reference	:	BBMP/EE/BTP/WO/246/201617
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-07-21
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1 Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex - C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	20-07-21

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	398	198	201	15840	31.785	2006.7	2033.3	Not less than 1800Kg/m^3
2	400	202	200	16160	32.964	2039.9		
3	405	201	199	16200	33.265	2053.4		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : CP-2022-01-19-26 Date: 24-07-21

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	400	199	202	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	400	199	202	
3	404	200	200	
4	400	200	200	
5	402	199	203	
6	403	203	200	
7	402	202	199	
8	400	199	203	
9	401	200	201	
10	403	200	203	
11	403	200	202	
12	402	201	200	
13	399	199	202	
14	401	199	202	
15	404	200	203	
16	399	199	199	
17	400	201	200	
18	402	202	203	
19	400	200	203	
20	401	202	200	
Average of 20	**401**	**200**	**201**	

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Name of Work: Repair to boundary

Lab ID : **CP-2022-01-19-26**

Date: 24-07-21

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	199	79619	377.7	4.7	4.7
2	400	199	79674	373.6	4.7	
3	404	200	80694	376.0	4.7	
4	400	200	79881	372.5	4.7	
5	402	199	80066	376.5	4.7	
6	403	203	81619	377.6	4.6	
7	402	202	81065	380.1	4.7	
8	400	199	79714	377.4	4.7	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

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